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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, October 21, 2024  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re: Permit Modification Approval for Carnegie 11H  
47-049-02525-00-00

**Adding an AST to the pad**

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin  
Chief

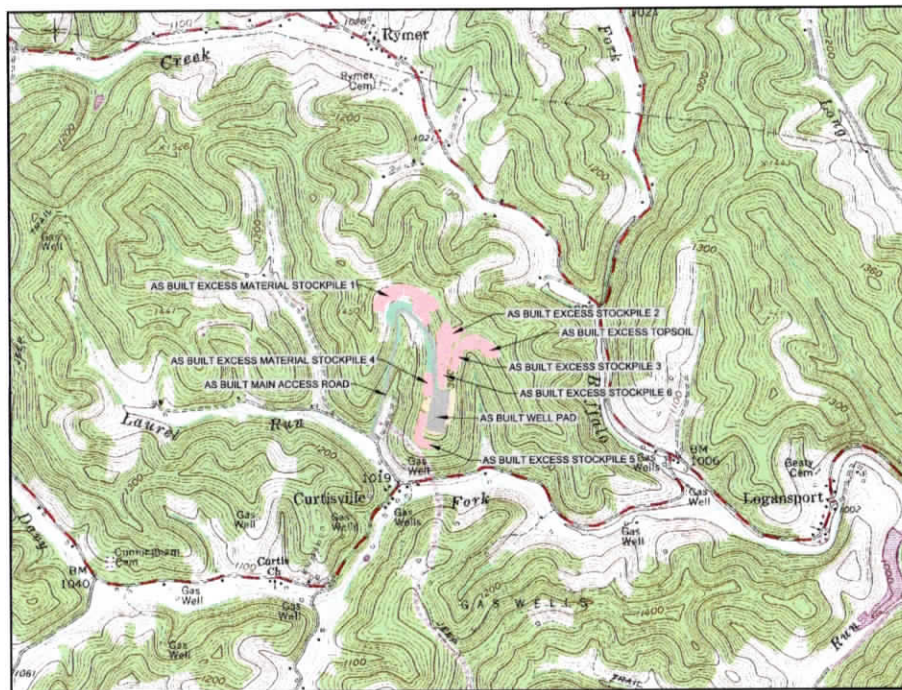
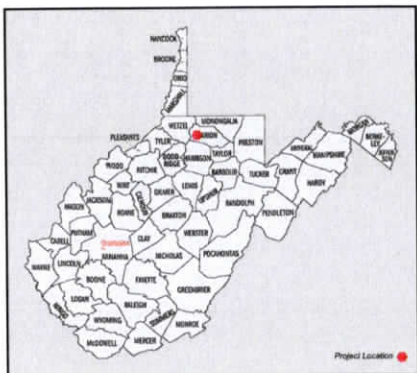
Operator's Well Number: Carnegie 11H  
Farm Name: Jeanne A Musgrave Akers & Joseph Forte  
U.S. WELL NUMBER: 47-049-02525-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 10/21/2024

Promoting a healthy environment.

10/25/2024

# EQT - CARNEGIE AS-BUILT / WELL PAD AST MODIFICATION

West Virginia Coordinate System of 1983  
State Plane Grid North  
Elevations NAVD83  
Established by Survey Grade GPS



**WELL LEGEND**

1H / L-003697	- LAT: 39.523718 / LONG. -80.436315
2H / L-003698	- LAT: 39.523751 / LONG. -80.436397
3H / L-003709	- LAT: 39.523758 / LONG. -80.436305
4H / L-003699	- LAT: 39.523792 / LONG. -80.436386
5H / L-003708	- LAT: 39.523798 / LONG. -80.436294
6H / L-003700	- LAT: 39.523832 / LONG. -80.436376
7H / L-003707	- LAT: 39.523839 / LONG. -80.436284
8H / L-003701	- LAT: 39.523872 / LONG. -80.436365
9H / L-003706	- LAT: 39.523879 / LONG. -80.436273
10H / L-003702	- LAT: 39.523913 / LONG. -80.436355
11H / L-003705	- LAT: 39.523920 / LONG. -80.436263
12H / L-003703	- LAT: 39.523954 / LONG. -80.436344
13H / L-007975	- LAT: 39.523960 / LONG. -80.436252
14H / L-003704	- LAT: 39.523994 / LONG. -80.436334
15H / L-007976	- LAT: 39.524000 / LONG. -80.436242
16H / L-003789	- LAT: 39.524034 / LONG. -80.436324
17H / L-004639	- LAT: 39.524041 / LONG. -80.436231
18H / L-003783	- LAT: 39.524074 / LONG. -80.436313
19H / L-004640	- LAT: 39.524081 / LONG. -80.436221

RECEIVED  
Office of Oil and Gas  
SEP 09 2024

West Virginia Department of Environmental Protection  
AFFLICTED PROPERTIES  
JOHN V. FORTE  
TAX MAP 49 - PARCEL 39  
23.95 ACRES  
SITE DISTURBANCE:  
EXCESS MATERIAL STOCKPILES = 2.10 ACRES  
PAD = 3.09 ACRES  
TOTAL DISTURBANCE = 5.19 ACRES  
TIMBER REMOVAL = 4.88 ACRES  
JOSEPH L.P.  
TAX MAP 49 - PARCEL 37  
23.95 ACRES  
SITE DISTURBANCE:  
ACCESS ROAD = 8.24 ACRES  
EXCESS MATERIAL STOCKPILES = 5.58 ACRES  
PAD = 3.51 ACRES  
TOTAL DISTURBANCE = 17.43 ACRES  
TIMBER REMOVAL = 15.79 ACRES  
JOHN WRIGHT  
TAX MAP 49 - PARCEL 38  
81.25 ACRES  
SITE DISTURBANCE:  
MAIN ACCESS ROAD = 8.15 ACRES  
EXCESS MATERIAL STOCKPILES = 13.84 ACRES  
TOTAL DISTURBANCE = 21.99 ACRES  
TIMBER REMOVAL = 20.94 ACRES  
JOSEPH V. FORTE  
TAX MAP 49 - PARCEL 39.1  
23.94 ACRES  
SITE DISTURBANCE:  
EXCESS MATERIAL STOCKPILES = 10.05 ACRES  
TOPSOIL STOCKPILE = 2.88 ACRES  
WELL PAD = 2.36 ACRES  
TOTAL DISTURBANCE = 15.29 ACRES  
TIMBER REMOVAL = 13.96 ACRES

**FLOODPLAIN CONDITIONS**

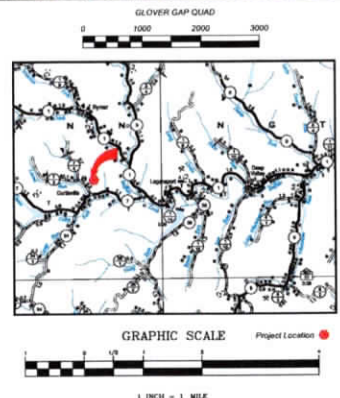
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:		
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:		NO
HEC-RAS STUDY COMPLETED:		NO
FLOODPLAIN SHOWN ON DRAWINGS:		N/A
FIRM MAP NUMBER(S) FOR SITE:	54049C0065D & 54049C0070D	N/A
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:		N/A

**SHEET INDEX**

COVER SHEET / LOCATION MAP	1
AS-BUILT OVERVIEW PLAN	2
AS-BUILT SITE PLAN	3-7
WELL PAD AST MODIFICATION	8
AS-BUILT ACCESS ROAD PROFILE	9-10

**SITE LOCATIONS**  
WGS 84 (WV NORTH ZONE)

LATITUDE	LONGITUDE
As Built Well Pad	39.523919 -80.436421
As Built Access Road Site 1400	39.523937 -80.440416
Proposed Access Road Well Pad 2171	39.524049 -80.438249



- WELL LOCATION RESTRICTIONS**
- Well Pad complies with the Well Location Restrictions of WV code 22-6A-12
- \* 250' from an existing well or developed spring used for human or domestic animals.
  - \* 625' to occupied dwelling or barn greater 2500 SF used for poultry or dairy measured from the center of the pad.
  - \* 100' from edge of disturbance to wetlands, perennial streams, natural or artificial lake, pond or reservoir.
  - \* 300' from edge of disturbance to naturally reproducing trout streams.
  - \* 1000' of surface or ground water intake to a public water supply.

As-Built Certification  
These drawings have been prepared using high density 3D scan data provided by Allegheny Surveys, Inc. on 8.9.23 and reflect the locations and as-built conditions known to exist following construction of this site, to the best of my knowledge.

**APPROVED**  
**WVDEP OOG**  
Modification  
10/21/2024

MISS Utility of West Virginia  
1-800-245-4848  
West Virginia State Law  
(Section XIV: Chapter 24-C)  
Requires that you call two business days before you dig in the state of West Virginia.  
**IT'S THE LAW!!!**



Allegheny Surveys, Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606

U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
STATE OF WEST VIRGINIA  
DIVISION OF MINERAL RESOURCES

Hornor Since 1926 Bros. Engineers  
Civil, Mining, Environmental and Surveying  
1400 Main Street, West Olive, MS 38688  
33800 Highway 100, West Olive, MS 38688  
304-649-8606

AS-BUILT COVER SHEET / LOCATION MAP  
**CARNEGIE**  
**MODIFIED WELL PAD SITE**  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024  
Scale: As Noted

DATE	REVISIONS	Designed by:
11/06/2023	ADDED ADDITIONAL AS BUILT RIPRAP	TBC

Page: 1 of 10

# CARNEGIE WELL PAD OVERVIEW OF AS BUILT SITE / AST MODIFICATION

RECEIVED  
Office of Oil and Gas

SEP 09 2024

WV Department of  
Environmental Protection



All appropriate information shown herein is based on high quality AS built data provided by Allegheny Surveys, Inc. on 8/8/24.



Allegheny Surveys Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-549-8600



**Hornor**  
Gregory J. Hornor, P.E.  
Civil, Mining, Environmental and  
Surveying  
1000 Main Street, Suite 1000, Charleston, WV 25302



THIS DOCUMENT  
PREPARED FOR:  
EQT PRODUCTION  
COMPANY

OVERVIEW OF AS BUILT SITE  
**CARNEGIE  
MODIFIED WELL PAD SITE**  
MANNINGTON DISTRICT  
MARION COUNTY, WV

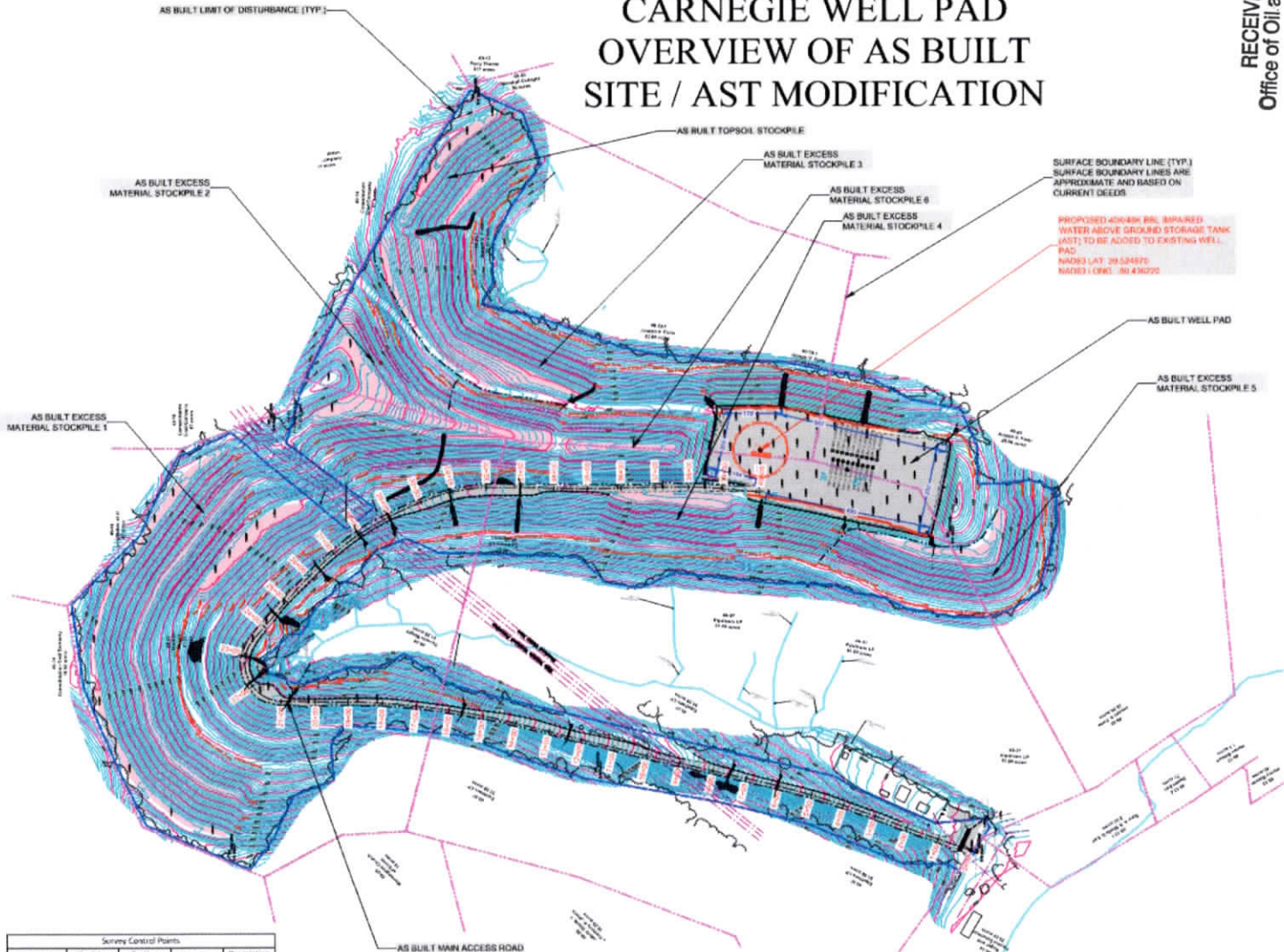
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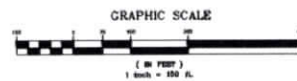
Designed by: JHR

File No: 24-00000000-0000

Page: 2 of 10



Survey Control Points				
Point Number	Northing	Easting	Elevation	Description
100	373846.03	1703227.30	1034.73	S/O Rebar
101	375073.56	1703467.94	1235.22	S/O Rebar
104	376140.11	1703236.82	1413.46	S/O Rebar
105	376216.43	1703501.32	1413.79	S/O Rebar
106	373429.07	1703476.58	1382.15	S/O Rebar
107	374026.93	1704167.48	1135.40	S/O Rebar



- Legend**
- As Built Well Pad Area
  - As Built Spill Area
  - As Built Stone Area
  - As Built Riprap
  - As-Built Tree Line
  - Existing Utility Pole
  - Existing 6in. Line 12
  - As Built 2' Contour
  - As Built 10' Contour
  - As Built 50' Fence
  - As Built Show Width
  - LOD
  - Levels of Disturbance (As-Built)
  - As Built Ditch Line
  - Surface Boundary Line

**APPROVED**  
**WVDEP OOG**  
Modification  
10/21/2024

*Kenny Willett*

DATE	REVISIONS

# CARNEGIE WELL PAD AS BUILT SITE PLAN

RECEIVED  
Office of Oil and Gas  
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WV Department of  
Environmental Protection



All topographic information shown hereon is based on high density 3D scan data provided by Allegheny Surveys, Inc. on 8/9/23



Allegheny Surveys Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor Bros. Engineers  
SINCE 1899 REGISTERED  
Civil, Mining, Environmental and  
Consulting Engineering  
1000 University Ave., Ste. 1000  
Martinsburg, WV 26150



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AS BUILT SITE PLAN  
CARNEGIE  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV

**APPROVED**  
**WVDEP OOG**  
Modification  
*[Signature]*  
10/21/2024

Date: 9/5/2024

Scale: 1"=50'

Designed by: TMC

File No: 2024-001-001-001-001

Page: 3 of 10

SURFACE BOUNDARY LINE (TYP.)  
SURFACE BOUNDARY LINES ARE  
APPROXIMATE AND BASED ON  
CURRENT DEEDS

48-14  
Roger and  
Pauline Eshelman  
25.09 acres

49-37  
Equitrans LP  
51.50 acres

49-37  
Equitrans LP  
51.50 acres

AS-BUILT ACCESS ROAD  
STATION 0+00  
NAD83 LAT. = 39.522937  
NAD83 LONG. = -80.440416

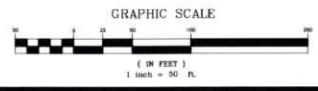
(2) 12" CPPS  
INLET ELEVATION = 1037.0'  
OUTLET ELEVATION = 1034.7'

24" CPP  
INLET ELEVATION = 1106.1'  
OUTLET ELEVATION = 1103.8'

30" CPP  
INLET ELEVATION = 1124.8'  
OUTLET ELEVATION = 1123.1'

**Legend**

- As-Built Stored Areas
- As-Built Riprap
- As-Built Tree Line
- Existing Utility Pole
- Existing Gas Line CL
- As-Built 2' Contour
- As-Built 10' Contour
- As-Built 5' Contour
- As-Built 5' Contour
- As-Built Straw Wattle
- Limits of Disturbance (As-Built)
- As-Built Ditch Line
- Surface Boundary Line



DATE	REVISIONS

# CARNEGIE WELL PAD AS BUILT SITE PLAN

RECEIVED  
Office of Oil and Gas  
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WV Department of  
Environmental Protection



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P.O. Box 436  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606

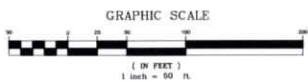
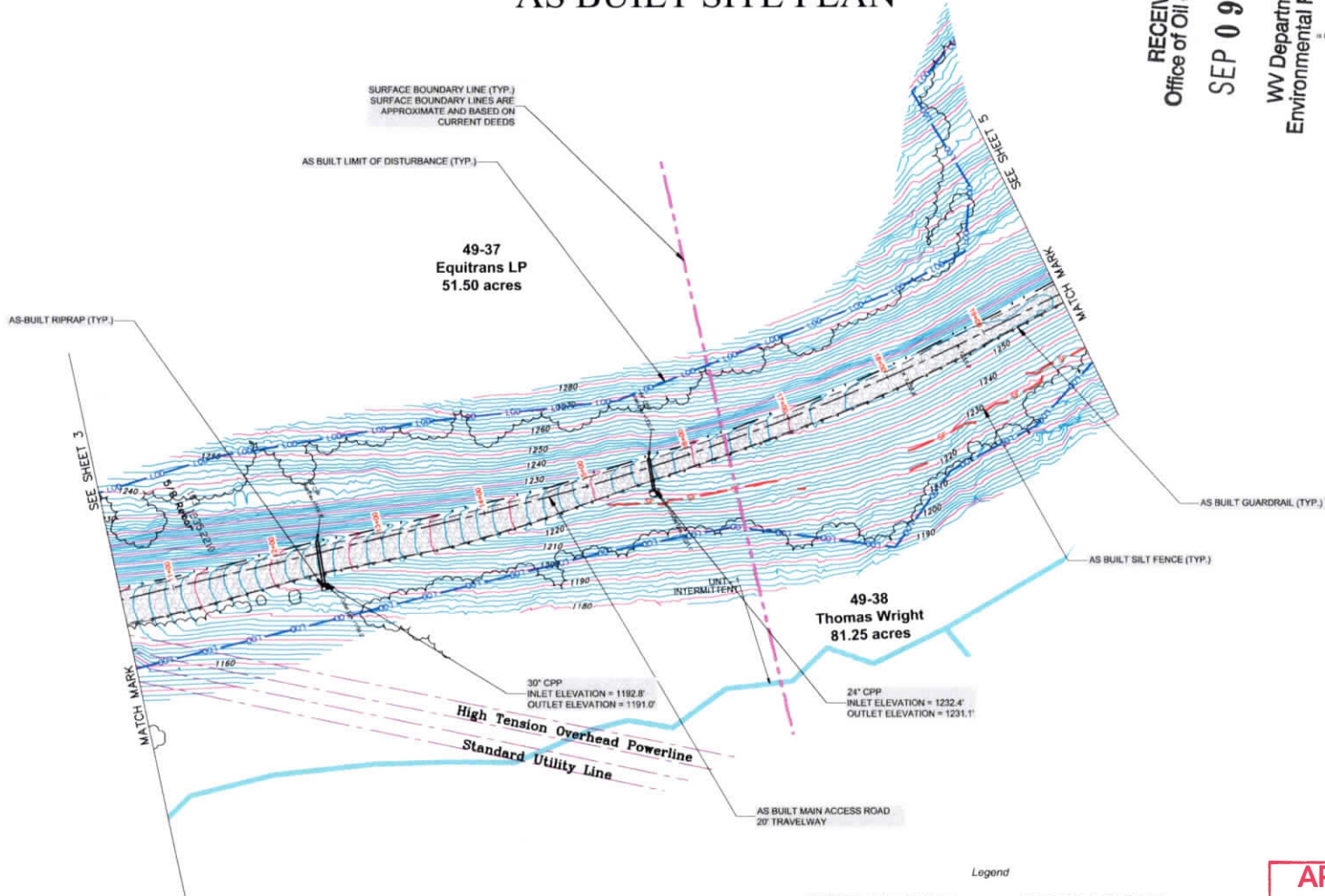


Hornor  
Brothers  
Engineers  
Since  
1962  
Civil, Mining, Environmental and  
Geotechnical Engineering  
140 State Street, Suite 200  
Martinsburg, West Virginia, 26101 (304) 631-4444



THIS DOCUMENT PREPARED FOR  
LOT PRODUCTION  
COMPANY

AS BUILT SITE PLAN  
CARNEGIE  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV



- Legend
- As Built Stored Areas
  - As Built Riprap
  - As-Built Tree Line
  - Existing Utility Pole
  - Existing Gas Line CL
  - As Built 2' Contour
  - As Built 10' Contour
  - As Built 5' Contour
  - As Built Silt Fence
  - As Built Straw Wattle
  - Limits of Disturbance (As-Built)
  - As Built Ditch Line
  - Surface Boundary Line

APPROVED  
WVDEP OOG  
Modification  
10/21/2024

DATE: 9/5/2024  
Scale: 1"=50'

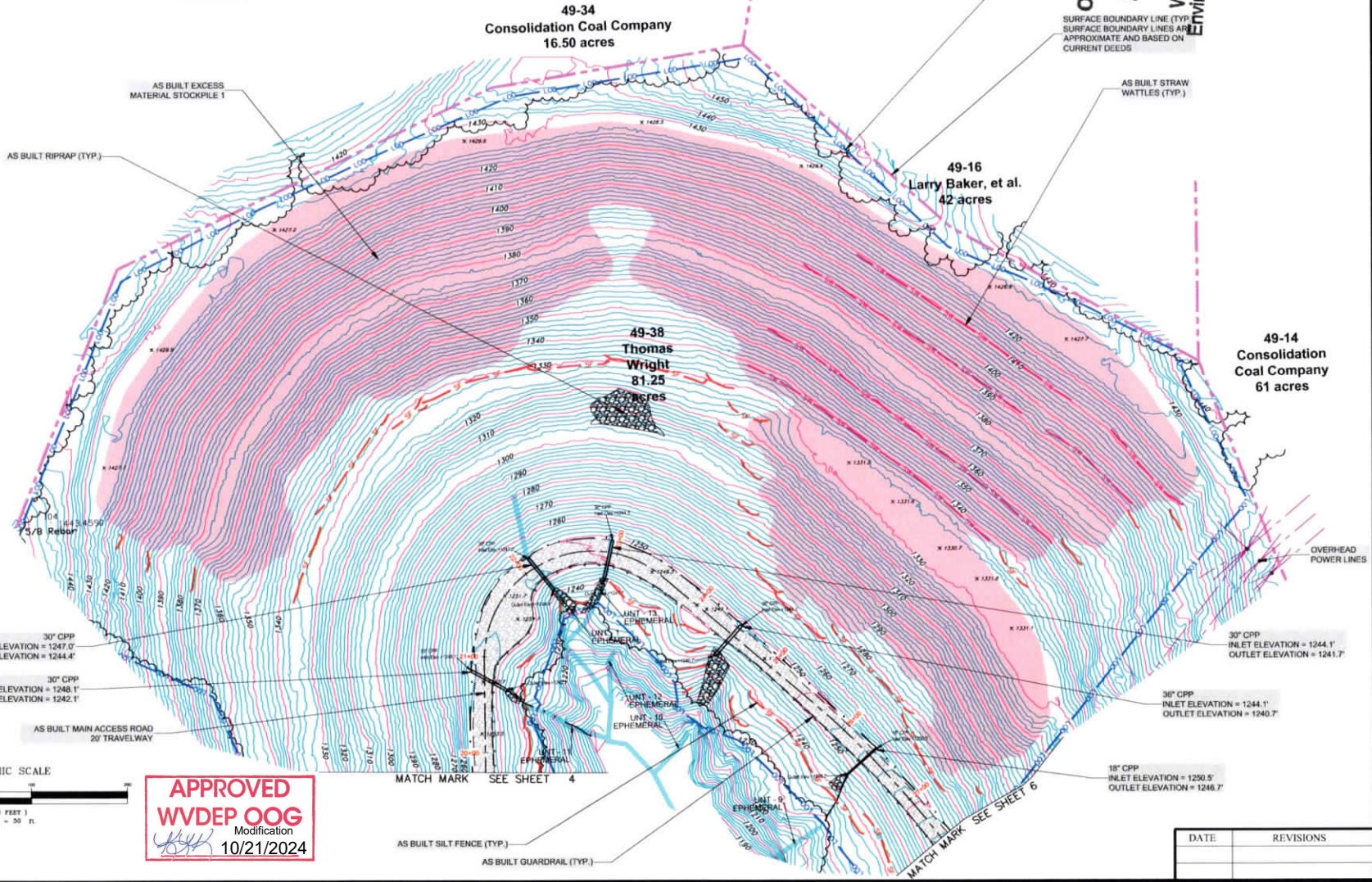
DATE	REVISIONS

Designed By: SNC  
File No.:  
Page 4 of 10

# CARNEGIE WELL PAD AS BUILT SITE PLAN

- As Built Stored Areas
- As Built Spill Areas
- As Built Riprap

- As-Built Tree Line
- Existing Utility Pole
- As Built 2" Contour
- As Built 10' Contour
- As Built Silt Fence
- As Built Straw Wattle
- Limits of Disturbance (As-Built)
- As Built Ditch Line
- Surface Boundary Line



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All topographic information shown herein is based on high density 3D wire data provided by Allegheny Surveys, Inc. on 8.9.23



Allegheny Surveys Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor Bros. Engineers  
31602  
Civil, Mining, Environmental and Consulting Engineering  
Overhead, West Virginia, 2025 (201) 534-8442



THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

AS BUILT SITE PLAN  
CARNEGIE WELL PAD SITE  
MODIFIED WELL PAD SITE  
MANNING DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024  
Scale: 1"=50'  
Designed by: TBC  
File No.: 2024-09-0001  
Page: 1 of 10

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Modification  
10/21/2024

DATE	REVISIONS

WVDEP, 2024/09/05 10:00 AM, 2024/09/05 10:00 AM, 2024/09/05 10:00 AM

# CARNEGIE WELL PAD AS BUILT SITE PLAN

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Office of Oil and Gas  
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Environmental Protection



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Allegheny Surveys Inc.  
P.O. Box 436  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor  
Since 1962  
Brooks, Engineers  
Civil, Mining, Environmental and  
Soils Engineering  
1400 South 2nd Street, 4th Floor, Suite 404  
Columbus, West Virginia, 26031 (304) 624-1444



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COMPANY

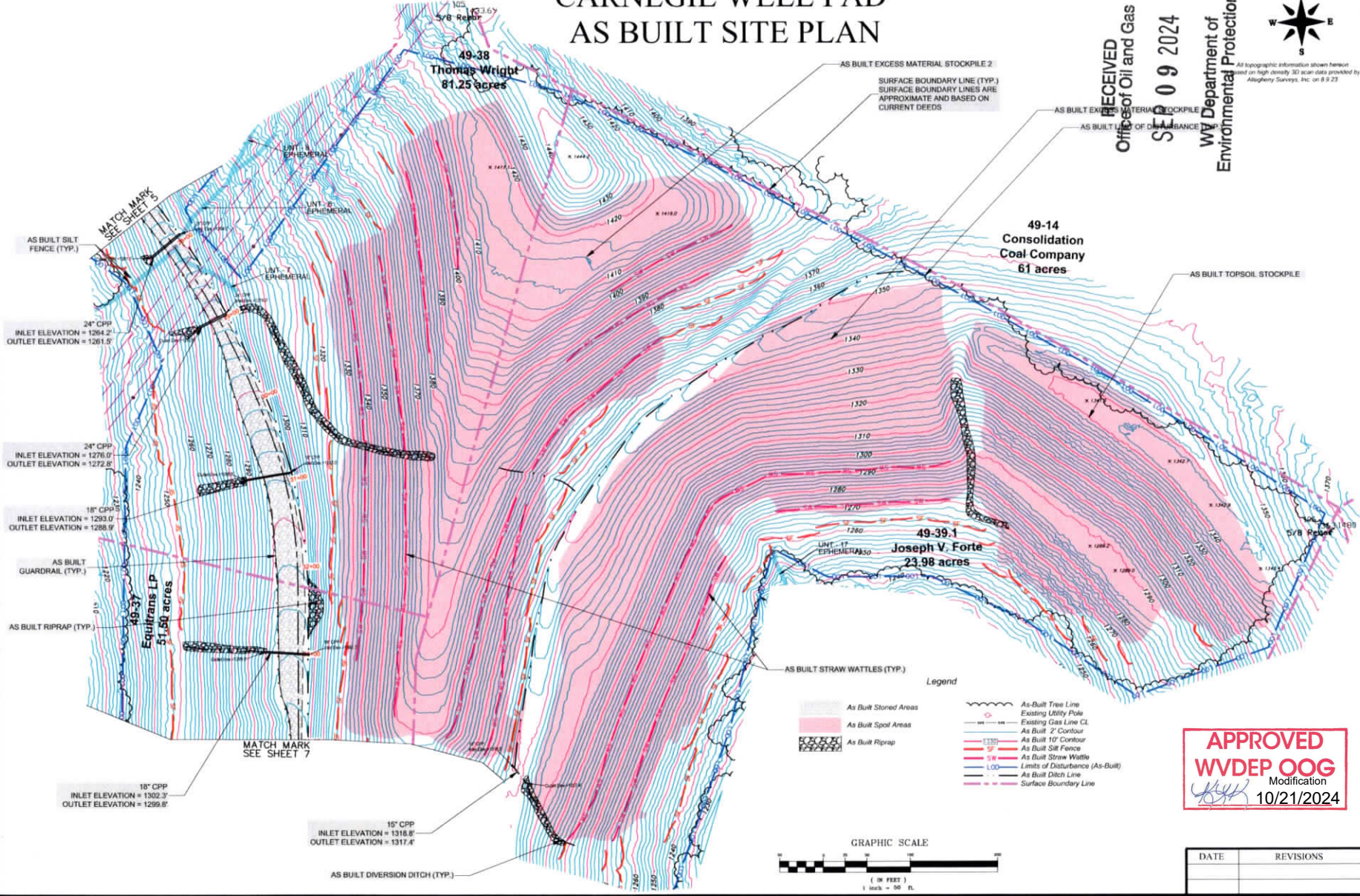
AS BUILT SITE PLAN  
**CARNEGIE**  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024

Designed By: JMC

File No.: 24-000-00000000

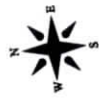
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DATE PLOTTED: 9/11/24 10:58 AM

# CARNEGIE WELL PAD AS BUILT SITE PLAN

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SEP 09 2024  
WV Department of  
Environmental Protection



All topographic information shown herein based on high density 3D scan data provided by Allegheny Surveys, Inc. on 8/9/23



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100 South 3rd Street, 2nd Floor, Box 100  
Martinsburg, West Virginia, 26101 (304) 631-4444



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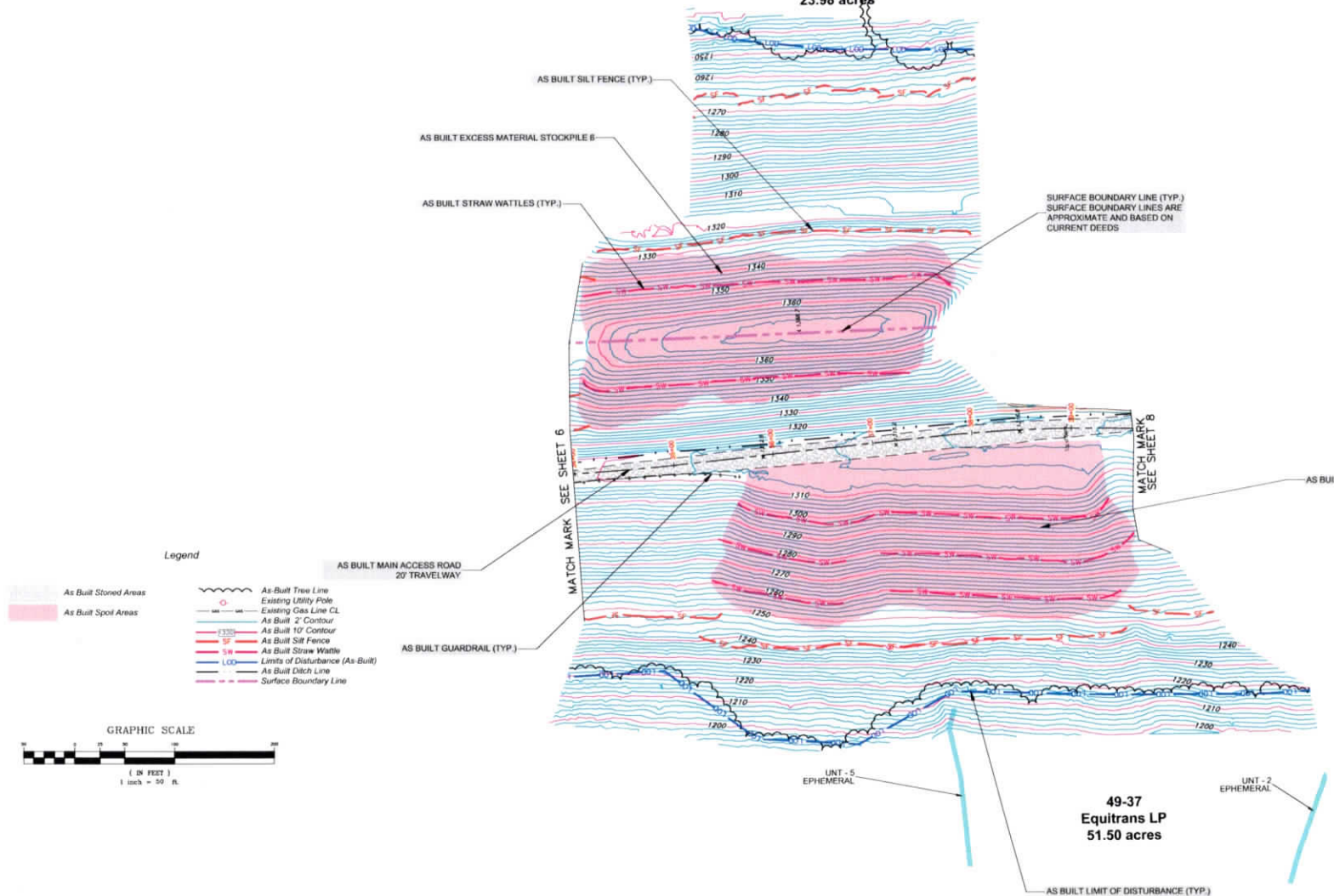
AS BUILT SITE PLAN  
CARNEGIE  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024

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**WVDEP OOG**  
Modification  
*[Signature]*  
10/21/2024

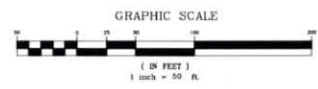
49-39.1  
Joseph V. Forte  
23.98 acres

49-37  
Equitrans LP  
51.50 acres



**Legend**

- As Built Stoned Areas
- As Built Spoil Areas
- As Built Tree Line
- Existing Utility Pole
- Existing Gas Line CL
- As Built 2' Contour
- As Built 10' Contour
- As Built Silt Fence
- As Built Straw Wattle
- Limits of Disturbance (As Built)
- As Built Ditch Line
- Surface Boundary Line



DATE	REVISIONS

Designed by: TMC  
File No: enw-2024-00100000  
Page: 7 of 10



# CARNEGIE WELL PAD

## WELL PAD AST MODIFICATION PLAN

RECEIVED  
Office of Oil and Gas

SEP 09 2024

WV Department of  
Environmental Protection



All topographic information shown hereon is based on high-accuracy 3D scan data provided by Allegheny Surveys, Inc. on 8.8.23



Allegheny Surveys, Inc.  
P.O. Box 436  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor Bros. Engineers  
3060  
1992  
Civil, Mining, Environmental and  
Construction Services  
2025 State Capitol Building  
Charleston, West Virginia, 25305 (304) 424-4444

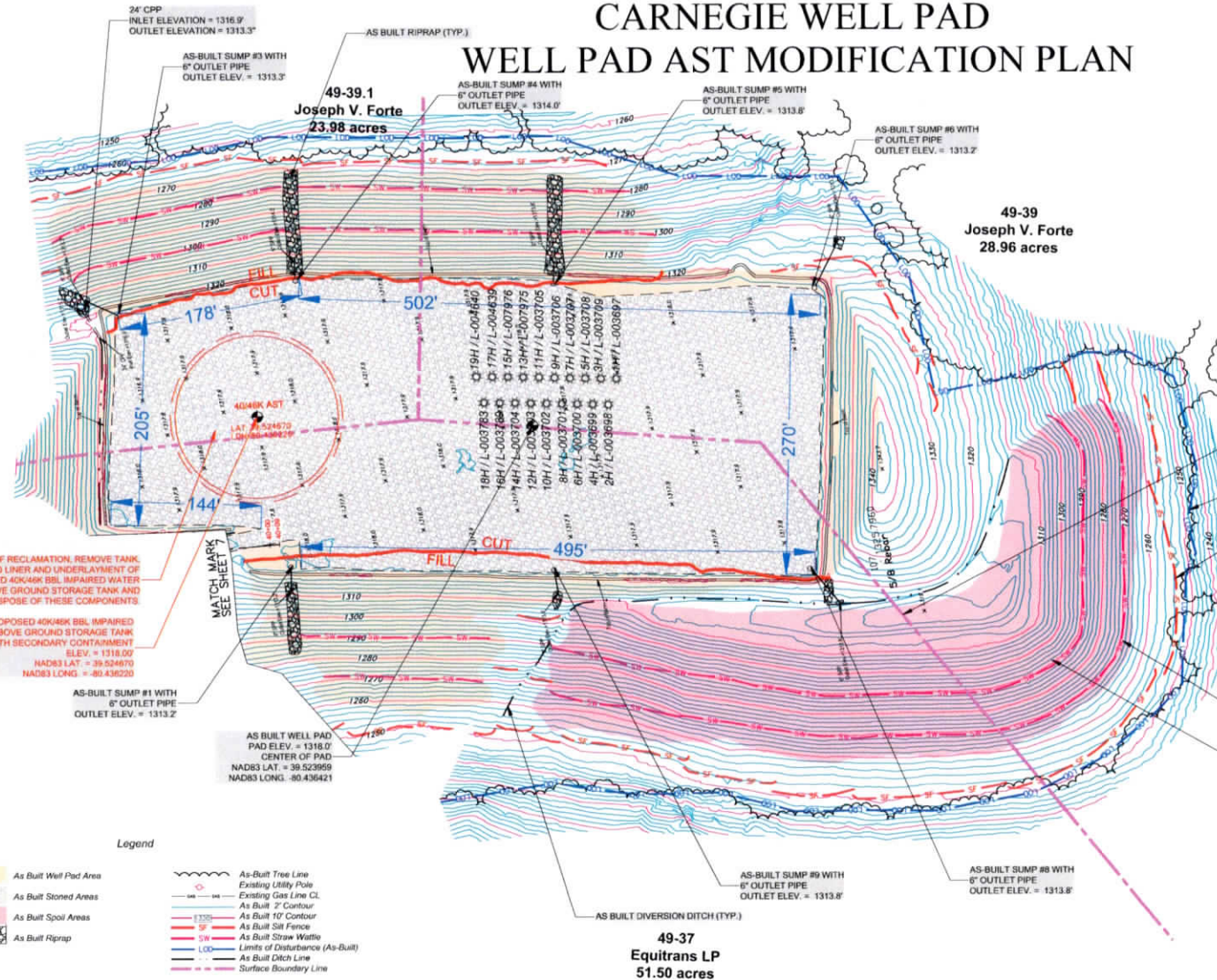


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LOT PRODUCTION  
COMPANY

WELL PAD AST MODIFICATION PLAN  
CARNEGIE  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024

Scale: 1"=50'  
Page 4 of 10



AT TIME OF RECLAMATION, REMOVE TANK PAD LINER AND UNDERLAYMENT OF INSTALLED 40KMB BBL IMPAIRED WATER ABOVE GROUND STORAGE TANK AND LEGALLY DISPOSE OF THESE COMPONENTS

INSTALL PROPOSED 40KMB BBL IMPAIRED WATER ABOVE GROUND STORAGE TANK (AST) WITH SECONDARY CONTAINMENT ELEV. = 1318.00'  
NAD83 LAT. = 39.524873  
NAD83 LONG. = -80.436230

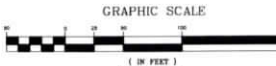
SURFACE BOUNDARY LINE (TYP.)  
SURFACE BOUNDARY LINES ARE APPROXIMATE AND BASED ON CURRENT DEEDS

AS BUILT LIMIT OF DISTURBANCE (TYP.)

AS BUILT SILT FENCE (TYP.)

AS BUILT STRAW WATTLES (TYP.)

AS BUILT EXCESS MATERIAL STOCKPILE 5



- Legend**
- As Built Well Pad Area
  - As Built Stoned Areas
  - As Built Spoil Areas
  - As Built Riprap
  - As-Built Tree Line
  - Existing Utility Pole
  - Existing Gas Line CL
  - As Built 2' Contour
  - As Built 10' Contour
  - As Built Silt Fence
  - As Built Straw Wattle
  - Limits of Disturbance (As-Built)
  - As Built Ditch Line
  - Surface Boundary Line

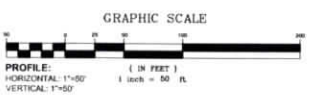
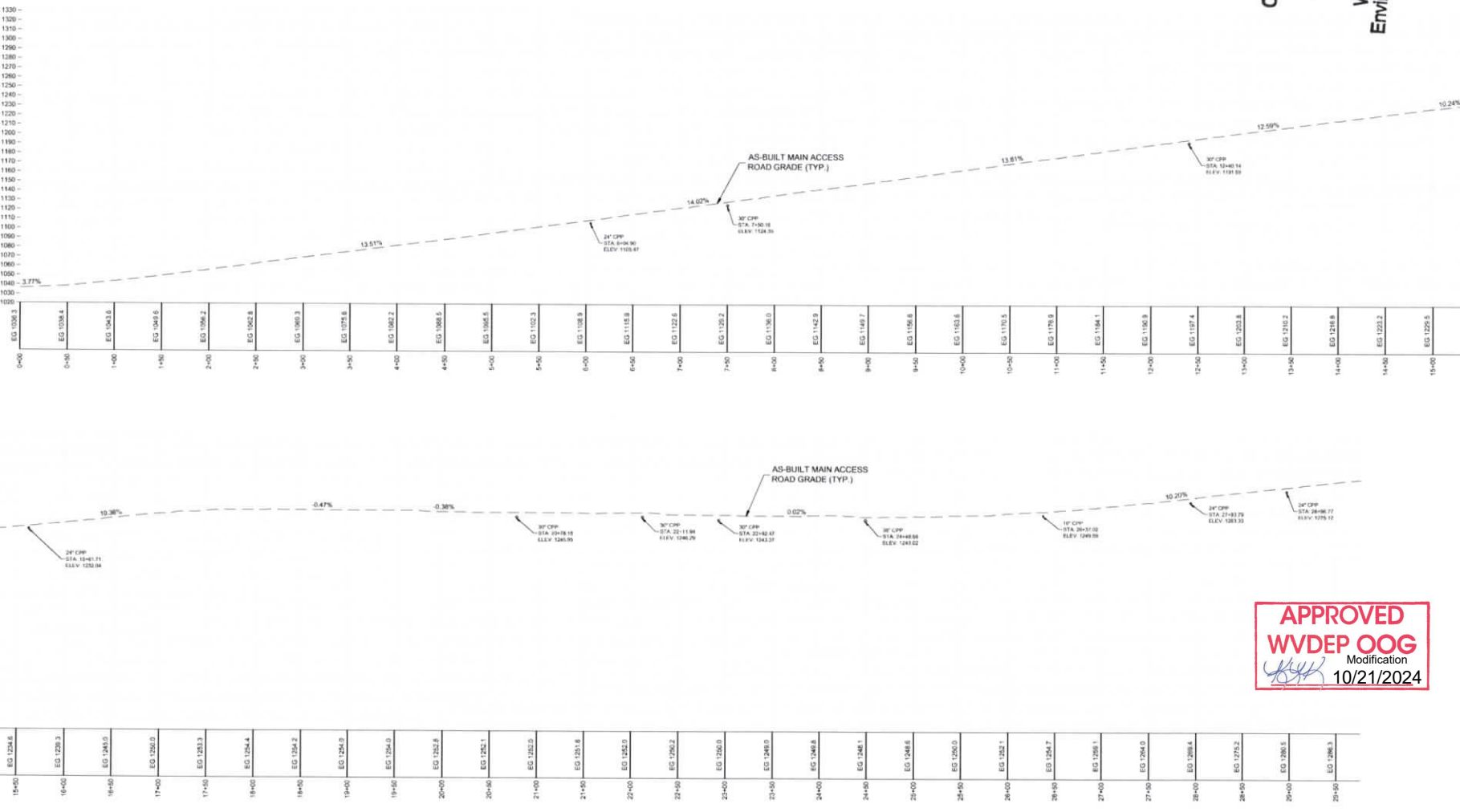
**APPROVED**  
**WVDEP OOG**  
Modification  
10/21/2024

DATE	REVISIONS

DATE PLOTTED: 23 SEP 2024 10:04:04 AM BY: J. HARRIS/10000

# CARNEGIE MODIFIED WELL PAD AS BUILT MAIN ACCESS ROAD PROFILE

**RECEIVED**  
 Office of Oil and Gas  
**SEP 09 2024**  
 WV Department of  
 Environmental Protection



**APPROVED**  
**WVDEP OOG**  
 Modification  
*[Signature]*  
**10/21/2024**



Allegheny Surveys Inc.  
 P.O. Box 436  
 237 Birch River Road  
 Birch River, WV 26610  
 304-649-8606



**Hornor Bros. Engineers**  
 Environmental and  
 Civil Engineers  
 142 South 10th Street, Post Office Box 386  
 Charleston, West Virginia, 25301-0386



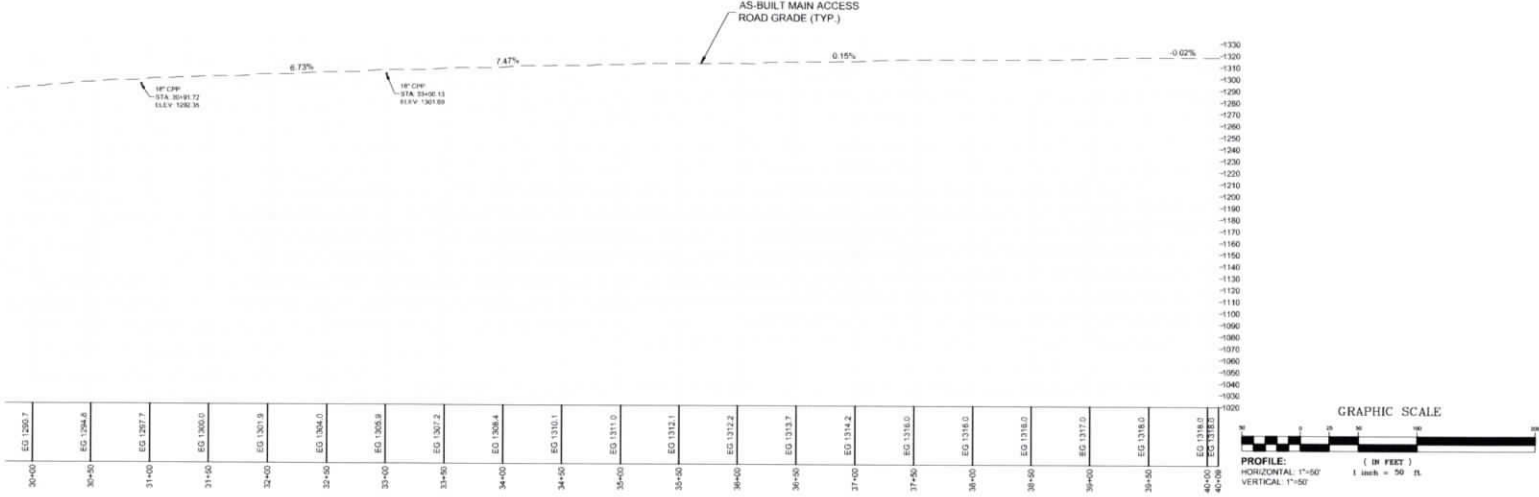
THIS DOCUMENT  
 PREPARED FOR  
 EGT PRODUCTION  
 COMPANY

AS BUILT MAIN ACCESS ROAD PROFILE  
**CARNEGIE**  
**MODIFIED WELL PAD SITE**  
 MANNINGTON DISTRICT  
 MARION COUNTY, WV

Date: 9/5/2024
Scale: 1" = 50'
Designed by: JRM
File No: 24-0000000000
Page: 8 of 10

DATE	REVISIONS

# CARNEGIE MODIFIED WELL PAD AS BUILT MAIN ACCESS ROAD PROFILE



**RECEIVED**  
 Office of Oil and Gas  
**SEP 09 2024**  
 WV Department of  
 Environmental Protection



Allegheny Surveys Inc.  
 P.O. Box 438  
 237 Birch River Road  
 Birch River, WV 26610  
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**Horner**  
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THIS DOCUMENT PREPARED FOR EGT PRODUCTION COMPANY

AS BUILT MAIN ACCESS ROAD PROFILE  
**CARNEGIE**  
**MODIFIED WELL PAD SITE**  
 MANNINGTON DISTRICT  
 MARION COUNTY, WV

**APPROVED**  
**WVDEP OOG**  
 Modification  
 10/21/2024

Date: 9/5/2024  
 Scale: 1" = 50'  
 Designed by: JRC

DATE	REVISIONS